

Implementation Status and Proposed Amendments to the Indoor Air Cleaner Regulation

**California Air Resources Board
Public Workshop and Webcast**

**June 12, 2009
9:30 a.m.**

**Byron Sher Auditorium, 2nd floor
Cal/EPA Building
1001 I Street, Sacramento, CA**

Outline

- **Introduction and workshop purpose**
- Regulation requirements
- Implementation
- Possible amendments
- Timeline
- How to submit comments
- Further information
- Questions and answers

Introduction and workshop purpose

- Update on implementation status
- Obtain input on possible changes to the air cleaner regulation

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Regulation requirements

- Adopted Sept. 2007; effective Oct. 18, 2008
- Air cleaners sold in CA after Oct. 18, 2010 must be tested, certified and labeled
- Labeling and advertising
- Manufacturers must notify distributors, retailers and sellers by Oct. 18, 2009 and send contact information to ARB
- Recordkeeping

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Implementation

- Held workshop in December 2008 to discuss implementation steps
- Developed and posted certification application and procedures
- Translated regulation into Chinese and Korean (will be posted soon)
- Posted Q & As and we are responding to individual questions
- Audited two laboratories
- Posted list of certified air cleaners on web site

Implementation – ozone testing and certification

- Testing facilities approved for ANSI/UL 867 ozone test
 - UL/AQS approved; Intertek audited, completion pending
 - 14 models from 7 companies tested
- Air cleaners certified
 - 36 models certified (34 mechanical and 2 ionizers)
 - Slower rate than anticipated

Problems identified

- Only one testing facility approved; however, it's not being fully utilized
- Several steps in ozone test protocol have lengthened the test time beyond expectations; testing costs higher than expected
- Economic downturn and lower consumer demand have resulted in higher than expected inventories of air cleaners
- More in-duct ozone generators marketed than previously recognized

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Possible amendments

- **Extend October 2010 compliance date**
- **Extend allowable date for use of adhesive sticker labels**
- **Increase allowable test facilities for mechanical air cleaner testing**
- **Clarify ANSI/UL 867 Section 37 ozone test protocol (with UL)**
- **Limit exemption for in-duct devices**

Extend October 2010 compliance date

- **Extend compliance date by six months**
- **Rationale: extension requested by manufacturers due to delay in readiness of second testing laboratory and excess inventories due to economic downturn**

Increase allowable test facilities for mechanical air cleaner testing

- **Allow NRTLs, recognized by OSHA to perform ANSI/UL Standard 507 testing, to accept testing under OSHA Programs 2, 3 and 4, subject to NRTL evaluation/approval**
- **Rationale: no ozone risk from mechanical devices; additional facilities can perform ANSI/UL Standard 507 electrical safety test**

Clarify ozone test protocol - I

- UL to clarify criteria for stopping ozone tests at 8 hours vs. 24 hours
 - Concern: Too restrictive as implemented; penalizes low-emitting devices
 - *Solution: Revise definition of steady state at hour 7-8*
- Streamline chamber performance tests
 - Concern: Sec. 37.2.3 requirements take more than two days of testing
 - *Solution: Verify ozone half-life once before each model group test; conduct other tests biannually*

Clarify ozone test protocol - II

- Streamline filter tests
 - Concern: Multiple types of filters are sometimes shipped and all must be tested
 - *Solution: Require testing of the least reactive (worst-case) alternate filter media, plus the standard filter*
- Specify VOC and PM limits
 - Concern: Chamber filtration are required, but only ozone background limits are specified
 - *Solution: Specify maximum chamber concentrations of VOCs and PM, too*

Address in-duct devices

- **Concern:** more in-duct devices being marketed, and anecdotal reports of elevated ozone emissions
- ***Solution:*** Consider ban on in-duct technologies designed to intentionally produce ozone
- ***Looking for data on ozone emissions from in-duct air cleaners***

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Timeline

- June 12, 2009 – workshop
- July 3, 2009 – deadline for comments (requested by June 26, 2009)
- September 4, 2009 – staff report released
- October 22-23, 2009 – Board update and public hearing on possible amendments
- Final steps: 15-day notice if needed; submittal to Office of Administrative Law

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How to submit comments

- Written comments requested by June 26, 2009
- Written comments required by July 3, 2009
- Send electronically to:
aircleaners@listserv.arb.ca.gov
- Send hard copies to:

Peggy Jenkins
Research Division, 5th floor
California Air Resources Board
1001 I Street
P.O. Box 2815
Sacramento, CA 95812

Further information

- Air cleaner regulation web page:

<http://www.arb.ca.gov/research/indoor/aircleaners/aircleaners.htm>

- Certification application:

<http://www.arb.ca.gov/research/indoor/aircleaners/certification.htm>

- Please sign up for email list serve updates:

<http://www.arb.ca.gov/listserv/listserv.php>

- Staff contacts:

- Certification and testing:

Ryan Johnson 916-323-2190 rjohnson@arb.ca.gov

- General information:

Jim Behrmann 916-322-8278 jbehrman@arb.ca.gov

Questions and answers

- Ways to submit questions – email to:
auditorium@calepa.ca.gov
- Phone in to: **1-877-784-3238, Passcode 29039,**
Leader's name: Peggy Jenkins
- Thank you for your participation!